

AMENDMENT UNDER 37 C.F.R. § 1.111
U. S. Application No. 09/927,527

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

Claims 1-35 (canceled).

36. (new): A method for controlling a transmission power of a data transmitting device in a wireless network, the method comprising:

transmitting a packet comprising a transmission power measurement requesting message to a receiving device;

receiving a response packet comprising a transmission power adjustment requesting message responsive to the transmission power measurement requesting message to control the transmission power of the data transmitting device, wherein:

the transmission power adjustment requesting message comprises link information that is based on a link quality of the data transmitting device and a reference link quality of the receiving device, and

the link quality of the data transmitting device includes reception power of the packet; and

controlling the transmission power of the data transmitting device based on the transmission power adjustment requesting message.

37. (new): The method according to claim 36, wherein the link quality of the data transmitting device further includes a reception status parameter of the packet.

AMENDMENT UNDER 37 C.F.R. § 1.111
U. S. Application No. 09/927,527

38. (new): The method according to claim 37, wherein at least one of a data error rate, an error correction rate, a bandwidth loss, and a delay is used as the reception status parameter.

39. (new): The method according to claim 36, wherein the reference link quality includes desired reference power of the receiving device.

40. (new): The method according to claim 36, wherein the wireless network is a wireless local area network (WLAN).

41. (new): The method according to claim 36, wherein the transmission power adjustment requesting message requests increase or decrease of the transmission power.

42. (new): The method according to claim 36, wherein the packet comprising the transmission power measurement requesting message is transmitted according to a predetermined cyclic period.

43. (new): A method for controlling a transmission power of a data transmitting device in a wireless network, the method comprising:

transmitting a packet comprising a transmission power measurement requesting message to a receiving device;

receiving a response packet comprising a transmission power adjustment requesting message responsive to the transmission power measurement requesting message to control the transmission power of the data transmitting device, wherein the transmission power adjustment requesting message comprises link information that is based on reception power of the packet and desired reference power of the receiving device; and

controlling the transmission power of the data transmitting device based on the transmission power adjustment requesting message.